

# Abdomen Three Phase KUB

Siemens 16 Slice

Application Examples: hematuria	
Oral Contrast	1 quart of water
IV Contrast / Volume	150 ml Omnipaque 300
Injection Rate	3.0 ml/sec

### Technical Factors

Renal Calc	
Scan Type	Spiral
Detector Collimator	Acq 16 x 1.2mm
kV / mAs / Rotation Time > 180 lbs	130 kV / 155 mAs / 0.6 seconds
kV / mAs / Rotation Time < 180lbs	110 kV / 155mAs / 0.6 seconds
Care Dose 4D	On
Pitch	0.8
Typical CTDIvol >180 pounds	17.26 mGy± 50%
Typical CTDIvol <180 pounds	11.10 mGy± 50%

Liver through Bladder	
Scan Type	Spiral
Detector Collimator	Acq 16 x 1.2 mm
kV / mAs / Rotation Time	130 kV / 155 mAs / 0.6 seconds
Care Dose 4D	On
Pitch	0.8
Typical CTDIvol	17.26 mGy± 50%

10 Minute Delayed KUB	
Scan Type	Spiral
Detector Collimator	Acq 16 x 1.2 mm
kV / mAs / Rotation Time	130 kV / 116 mAs / 0.6 seconds
Care Dose 4D	On
Pitch	0.8
Typical CTDIvol	12.99 mGy± 50%

Topogram: LATERAL, AP, 512 mm

Renal Calc	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	3 x 3	B30s	Abdomen	AXIAL WITHOUT	PACS
Liver/Kidneys	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	3 x 3	B30s	Abdomen	AXIAL	PACS
Recon 2	1.5 x 0.7	B30s	Abdomen	AXIAL 1.5 x 0.7 STND	TeraRecon
Delayed	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	3 x 3	B30s	Abdomen	AXIAL DELAYED	PACS
Recon 2	1.5 x 0.7	B30s	Abdomen	AXIAL DELAYED 1.5 x 0.7 STND	MPR / TeraRecon

This protocol is used for evaluating common causes of persistent hematuria such as stones or tumors.

**Exam Instructions:** Give patient one quart of water to drink approximately 30 minutes before scan.

**Patient Position:** Patient lying supine with arms above head.

**Scan Instructions:** First, scan non-contrast **kidneys through bladder**.

Second, inject IV contrast and scan **liver through entire bladder** at 90 second scan delay (cortical medullary phase).

Third, wait 10 minutes and scan **kidneys through bladder**.

**2D Reformations:** Post processing done in 3D card.

Series: Delayed	Reformat Type	Width / Increment	Window	Series Description	Networking
Recon 2	Coronal MPR	3 x 3	Abdomen	COR	PACS
Recon 2	Sagittal MPR	3 x 3	Abdomen	SAG	PACS
Recon 2	Coronal MIP	3 x 3	Abdomen	COR MIP	PACS

**Image Evaluation:** If contrast is not seen throughout ureters on delayed scan, contact Radiologist.

**3D:** Raysum. Contact La Crosse Imaging Lab.